



Fish Passage Center

Weekly Report #00 - 24

August 18, 2000

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SUMMARY OF EVENTS:

Water Supply: Precipitation for the period of August 1 through 15 was below normal for the entire basin. Precipitation for Columbia above Coulee was 21% of average, for Snake River above Ice Harbor was 36% of average and for Columbia at The Dalles was 22% of average.

Reservoir Operations: The reservoirs continued to be operated for power generation during the week of August 11-17. Fishery Agencies requested drafting of Grand Coulee to 1282 ft through August 13 in order to improve flows at McNary for juvenile fall chinook outmigration in the lower Columbia. The federal operating agencies chose to shape available fish flow augmentation volume to meet load and reliability requirements for California utilities rather than implementing the agencies shaping request. The agencies request was to shape fish migration flows to accelerate passage in the first part of August.

A summary of actual elevations on August 17, and full pool elevations is shown in the following Table:

Project	Actual August 17 Elevation in [ft]	Actual Elevation on June 30 & Full Pool Elevation in [ft]
<i>Libby</i>	2436.12	2418.1/2459.0
<i>Hungry Horse</i>	3544.4	3558.3/3560.0
<i>Grand Coulee</i>	1281.4	1279.0/1290.0
<i>Brownlee</i>	2043.5*	2072.06/2077.0
<i>Dworshak</i>	1538.65	1598.6/1600.0

* as of August 16

Libby reservoir was passing inflow with inflows in the range of 6.5 kcfs-10.1 kcfs for the period of August 11-17. Outflows were maintained on the level of 8 Kcfs, for the bull trout operation, for the period of August 11-17.

Hungry Horse continued drafting summer flow augmentation at rates of 4.40 kcfs for the period of August 11-17. Inflows fluctuated in the range of 0.45 kcfs-1.47 kcfs for the same period of August 11-17.

Grand Coulee was operated with outflows in the range of 102.8 kcfs and 130.8 kcfs with elevations fluctuating between 1284.2 ft and 1281.4 ft for the period of August 11-17. Although the Fishery Agencies requested drafting to elevation of 1282 ft, the reservoir was at elevation of 1284 ft on August 13 to meet power market concerns.

Brownlee reservoir was operated at elevations between 2043.13 ft and 2043.91 ft for the period of August 11-16. Inflows to reservoir fluctuated between 8.74 kcfs to 10.48 kcfs for the period of August 11-16. Outflow from Hells Canyon Dam for the past week of August 11-17, fluctuated between 6.59 kcfs and 8.45 kcfs.

Dworshak continued drafting for flow augmentation. The outflow was held in the range of 13.3 kcfs-14 kcfs in order not to exceed total dissolved gas limit of 110% in the tailrace of the project. Inflows to the reservoir fluctuated from 0.7 kcfs to 1.9 kcfs for the period of August 11-17.

Upper Snake reservoirs: As of August 17, the Upper Snake system was further drafted to 52% of capacity. The irrigation demands in the system continued to be high and current flow at diversions at Palisades and Minidoka are 9.2 kcfs and 9.8 kcfs, respectively. Salmon flow augmentation from American Falls continued at rate of 1.3 kcfs higher than base flows of 0.2 kcfs at Milner, with 1.5 kcfs as total outflow.

Boise and Payette River Basins: As of August 17, the Boise River system was at 66% of capacity. Salmon augmentation continued with flows of .275 kcfs above base flows. As of August 17, the Payette River system was at 75% of capacity. Salmon augmentation continued at rates of about 0.6 kcfs above base flows.

Streamflow: The Biological Opinion summer flow target of 51.3 Kcfs at Lower Granite began on June 21 and 200 Kcfs for McNary began on July 1. Weekly average flows for McNary and Lower Granite remained below the flow targets for the period of August 11-17. Fishery Agencies requested drafting of Grand Coulee to 1282 ft on August 13 in attempt to exceed flows of minimum 160 kcfs at McNary for the week of August 7-13 for the fall chinook juvenile migration. The reservoir was not drafted to desired elevation because of the BPA concerns for the energy supply reliability for California, although the minimum flow target of 160 kcfs was exceeded. The actual weekly average for the period of August 7-13 was 162.5 kcfs. The daily average flow for run of river projects for August 11-17 period was similar to or slightly exceeding the flows from the previous week. A summary of the weekly average flows and the range of daily average flows are given in the following Table:

Project	Average daily discharge and range [kcfs]	
	August 4-10	August 11-17
<i>Priest Rapids</i>	134.2 (107.8-163.2)	134.1 (107.9-149.4)
<i>McNary</i>	157.5 (139.0-191.0)	160.0 (146.7-187.2)
<i>Lower Granite</i>	27.3 (25.9-29.4)	27.3 (26.6-28.7)
<i>Bonneville</i>	162.5 (129.2-177.3)	165.9 (147.3-175.9)

Spill: Outflow from Dworshak Dam continued for summer flow augmentation and temperature regulation. The outflow exceeded hydraulic capacity and spill averaged 3.4 Kcfs over the past week. No dissolved gas waiver has been issued and, consequently, outflow is limited to the level that does not exceed the total dissolved gas standard. The Biological Opinion summer spill program is being implemented at the Lower Snake projects and only calls for spill at Ice Harbor Dam, as transportation is maximized at the collector projects. Spill at Ice Harbor Dam was modified because of concerns regarding predation at low fish spill levels (4-11 Kcfs). Spill is restricted to those hours when flow volumes are large enough to sustain spill levels greater than 15 Kcfs. This operation is being implemented and will be further evaluated.

Biological Opinion spill as modified by the NMFS and Action Agencies' Spill Plan continues at the lower Columbia River projects (John Day, The Dalles and Bonneville dams) through August 31. Fish spill at The Dalles was interrupted for three hours on August 15 for an energy emergency in California. Spill in excess of hydraulic capacity has occurred on some days over the past week at McNary Dam.

Levels of total dissolved gas were below, or near, the allowable TDGS levels at all locations measured. Monitoring for signs of gas bubble trauma (GBT) on fish collected through the Smolt Monitoring Program showed no fish with signs of GBT in fins.

Smolt Monitoring Program. *Snake River basin:* Subyearling chinook passage indices dropped at each Snake River monitoring site this week from last week's average level (Lower Granite Dam down 36%, Little Goose Dam down 64%, and Lower Monumental Dam down 28%). *Mid-Columbia River:* Subyearling chinook passage indices at Rock Island Dam dropped an average of 36% this week from last week's level. *Lower Columbia River:* Subyearling chinook passage indices at McNary Dam remained at a level comparable to last week (this week's average remained 9% above last week's level). McNary Dam's subyearling chinook passage indices averaged nearly 44,000 fish per day. This week's 7-day average subyearling chinook passage index at John Day Dam was 69% lower than last week's average, but most of this change resulted from a couple of high passage days last week. John Day Dam's subyearling chinook passage indices have now settled down to a level around 2,000-3,000 fish per day. Subyearling chinook passage indices at Bonneville Dam were lower this week, but minimal flows through Powerhouse 2 where the sampling facility is located makes quantifying these changes inappropriate.

Adult fish passage – At Bonneville Dam, counts of fall chinook varied through the week with daily counts ranging from 600 on August 12 to 2309 per day on August 17. The cumulative count through August 17 is 14,261, about 193% of the 1999 average to-date and more than twice the 10-year average to date. The fall chinook jack count is presently 2-3 times greater than the 1999 and 10-year average so the trend of higher jack counts appears to be continuing into the fall chinook run. The fall chinook passage counts at The Dalles Dam continued to increase during the week with the high daily count of 970 and a cumulative count of 7,449.

At McNary Dam, daily counts of adult fall chinook ranged from 138 to 443 per day for the week with the cumulative count through August 17 of 2,108. The cumulative count of adult summer chinook at Ice Harbor Dam was 4,241 through August 11. The project began counting fall chinook beginning August 12, with 59 adult fall chinook counted through August 17.

The Mid-Columbia River count of adult summer chinook at Priest Rapids was 22,406 through August 13. The project switched to counting fall chinook beginning August 14.

Sockeye counts at the Mid-Columbia projects were greater than 89,000 at Priest Rapids, 73,000 at Rock Island and 59,000 at Wells Dam. About 77% of the adult sockeye are destined for the Okanogan River Basin (Lake Osoyoos) with the remaining 23% destined for the Wenatchee River Basin.

At Bonneville Dam, the daily steelhead counts increased during the week, and were greater than 4000 per day through the week ending August 17. The cumulative count for the project is 153,060 about 1.4 times and 1.5 times greater than the respective 1999 and 10-year average. Daily counts at Bonneville Dam remained greater than double the daily counts at The Dalles Dam with greater than 90,000-steelhead differential between the two projects. At Bonneville Dam about 36% of the passage have been recorded as "unclipped" steelhead or "wild". The passage of steelhead into the Snake River decreased to less than 100 per day at Ice Harbor with the cumulative count 12,319. Of this total, about 31% of the Ice Harbor count were unclipped or "wild". The passage of steelhead into the Mid-Columbia projects through the past week had counts near 100 per day at Priest Rapids Dam with the cumulative count now 3,741 and upstream at Rock Island, 2,290.

Coho salmon are just beginning to arrive at Bonneville Dam (319 total), but should continue to increase through the month.

Hatchery Releases –Based on preliminary data, about 82.8 million yearling and subyearling fish were released from State, Federal or Tribal hatcheries or Acclimation Ponds for the Year 2000 Migration. There were no hatchery releases for the past two weeks, nor are there any scheduled in the upcoming two weeks.

Daily Average Flow and Spill (in kcfs) at Mid-Columbia Projects

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/04/00	124.6	0.0	128.8	0.0	129.4	8.0	128.3	9.6	127.7	20.3	128.7	35.9	128.6	64.6
08/05/00	98.8	0.0	104.0	0.0	108.1	7.1	111.3	9.4	113.5	20.3	123.1	35.0	120.0	60.8
08/06/00	101.6	0.0	100.4	0.0	102.6	6.9	102.9	10.0	101.7	19.8	107.7	30.1	107.8	54.7
08/07/00	118.9	0.0	127.2	0.0	126.5	7.7	125.9	9.1	126.3	20.3	128.3	34.1	127.7	64.6
08/08/00	124.8	0.0	120.8	0.0	125.1	7.7	125.8	2.9	125.1	20.4	134.1	34.7	133.0	66.1
08/09/00	145.3	0.0	147.0	0.0	148.2	8.8	149.4	13.8	147.8	20.2	153.7	39.8	159.3	79.2
08/10/00	149.1	0.0	152.9	0.0	153.5	9.8	154.1	14.2	154.7	20.4	161.5	42.8	163.2	80.2
08/11/00	122.6	0.0	128.0	0.0	135.7	10.0	139.4	15.6	136.0	19.7	139.6	36.3	144.0	72.0
08/12/00	117.3	0.0	117.1	0.0	121.9	8.1	121.7	10.9	122.8	20.3	129.4	33.8	132.0	66.2
08/13/00	102.8	0.0	105.2	0.0	102.6	7.2	103.2	0.0	104.1	20.2	106.2	27.9	107.9	54.2
08/14/00	125.8	0.0	127.7	0.0	130.6	8.2	131.9	0.0	129.9	20.0	132.9	35.7	134.0	67.1
08/15/00	130.8	0.0	133.6	0.0	134.3	8.5	132.8	0.0	131.2	20.3	147.0	41.0	149.4	74.6
08/16/00	124.3	0.0	126.2	0.0	130.6	7.8	123.2	0.0	133.8	20.4	128.6	35.9	132.5	65.2
08/17/00	124.6	0.0	129.2	0.0	125.5	8.2	125.5	0.0	126.7	16.9	135.3	40.2	138.8	67.8

Daily Average Flow and Spill (in kcfs) at Snake Basin Projects

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/04/00	12.9	2.9	9.7	6.8	26.4	0.0	26.9	0.0	27.4	0.0	30.0	22.6
08/05/00	12.8	2.8	9.7	6.7	29.4	0.0	28.3	0.0	27.8	0.0	28.3	21.7
08/06/00	12.8	2.8	9.7	7.4	27.4	0.0	29.1	0.0	30.3	0.0	31.6	24.7
08/07/00	12.9	2.8	9.6	6.9	26.8	0.0	27.2	0.0	26.5	0.0	26.5	19.2
08/08/00	13.1	3.0	11.0	6.8	26.3	0.0	27.3	0.0	29.5	0.0	35.9	29.1
08/09/00	13.1	3.1	9.7	7.1	25.9	0.0	27.0	0.0	27.6	0.0	27.8	20.3
08/10/00	13.2	3.1	9.6	6.7	28.7	0.0	27.9	0.0	28.0	0.0	30.4	23.3
08/11/00	13.3	3.1	9.4	6.6	28.7	0.0	30.3	0.0	30.4	0.0	31.5	25.6
08/12/00	13.4	3.2	10.4	6.6	25.9	0.0	27.0	0.0	27.1	0.0	29.2	23.5
08/13/00	13.7	3.4	10.5	6.6	27.8	0.0	26.4	0.0	26.5	0.0	29.0	22.3
08/14/00	13.7	3.4	9.2	6.6	27.3	0.0	30.2	0.0	32.2	0.0	36.4	29.9
08/15/00	13.7	3.4	8.7	7.3	26.5	0.0	24.9	0.0	24.3	0.0	26.0	19.4
08/16/00	13.9	3.5	---	8.4	26.6	0.0	28.9	0.0	30.0	0.0	31.9	24.9
08/17/00	14.0	3.6	---	---	28.2	0.0	25.6	15.1	28.8	0.0	29.1	21.9

Daily Average Flow and Spill (in kcfs) at Lower Columbia Projects

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
08/04/00	153.1	0.0	154.1	64.9	152.3	60.8	177.3	84.5	61.3	22.3
08/05/00	139.0	0.0	142.7	59.9	138.0	55.1	152.3	82.9	46.4	13.9
08/06/00	143.8	0.0	133.1	39.5	129.0	52.0	129.2	87.5	27.3	5.1
08/07/00	155.8	0.0	156.6	45.8	156.0	60.1	166.0	113.0	38.5	5.3
08/08/00	170.0	8.5	173.8	50.2	166.6	66.2	176.2	119.3	42.2	5.5
08/09/00	150.1	0.0	151.0	67.3	153.3	58.9	170.2	88.7	51.5	20.8
08/10/00	191.0	36.1	177.2	74.2	172.2	66.8	166.2	88.7	52.9	15.4
08/11/00	147.2	0.0	156.3	69.6	155.4	61.8	165.9	90.4	50.9	15.4
08/12/00	166.2	19.6	157.9	44.5	159.6	62.9	173.3	132.8	25.7	5.7
08/13/00	157.1	11.0	145.7	42.1	137.8	54.5	147.3	107.5	25.2	5.4
08/14/00	146.7	0.0	162.3	48.9	157.0	62.4	163.3	113.7	34.9	5.5
08/15/00	162.1	18.3	163.2	73.5	160.2	60.2	161.0	91.7	50.5	9.6
08/16/00	153.6	10.3	160.3	72.0	156.3	61.4	174.5	98.1	53.2	14.1
08/17/00	187.2	36.1	174.0	76.2	170.6	67.0	175.9	101.1	47.8	17.8

**Gas Bubble Trauma Monitoring Results from Representative Sites
on the Snake River and Columbia River**

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank				Fish with L. Line GBT	
								Rank 1	Rank 2	Rank 3	Rank 4	Num Fish	Avg. Rank
McNary Dam													
	08/10/00	Subyearling Chinook	100	3	0	0.00%	0.00%	0	0	0	0	3	1
	08/14/00	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/17/00	Subyearling Chinook	100	4	0	0.00%	0.00%	0	0	0	0	4	1
Bonneville Dam													
	08/08/00	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/10/00	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/15/00	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/17/00	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
Rock Island Dam													
	08/10/00	Subyearling Chinook	80	2	2	2.50%	0.00%	2	0	0	0	0	0
	08/14/00	Subyearling Chinook	66	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/17/00	Subyearling Chinook	51	0	0	0.00%	0.00%	0	0	0	0	0	0

Two-Week Summary of Passage Indices

The Total, # Days, and Average are calculated on the last two weeks of data and do not include the current day's passage index.

COMBINED YEARLING CHINOOK

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/04/00	---	---	---	---	54	12	7	0	0	0	0
08/05/00	---	---	---	---	66	5	0	1	0	0	0
08/06/00	---	---	---	---	30	5	1	0	0	0	0
08/07/00	---	---	---	---	42	5	9	0	0	0	0
08/08/00	---	---	---	---	24	4	2	0	30	0	0
08/09/00	---	---	---	---	6	4	2	0	0	0	0
08/10/00	---	---	---	---	24	0	4	2	0	0	0
08/11/00	---	---	---	---	6	3	6	0	0	0	0
08/12/00	---	---	---	---	12	0	1	0	0	0	0
08/13/00	---	---	---	---	6	0	5	1	0	0	0
08/14/00	---	---	---	---	12	10	1	0	0	0	0
08/15/00	---	---	---	---	12	2	5	0	0	0	0
08/16/00	---	---	---	---	4	3	0	0	0	16	0
08/17/00	---	---	---	---	12	0	1	0	0	0	0
Total:	0	0	0	0	310	53	44	4	30	16	0
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	22	4	3	0	2	1	0

COMBINED SUBYEARLING CHINOOK

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/04/00	---	---	---	---	4,328	3,570	341	223	57,600	29,829	3,689
08/05/00	---	---	---	---	2,898	2,436	273	216	37,400	7,299	6,708
08/06/00	---	---	---	---	3,120	1,928	272	167	28,950	3,268	9,107
08/07/00	---	---	---	---	4,038	1,790	350	137	23,450	3,601	1,739
08/08/00	---	---	---	---	2,544	1,482	251	110	34,300	4,406	1,494
08/09/00	---	---	---	---	2,538	1,522	265	103	40,981	14,379	312
08/10/00	---	---	---	---	2,364	1,309	251	129	59,150	4,034	1,605
08/11/00	---	---	---	---	2,328	1,195	168	94	80,882	3,264	1,734
08/12/00	---	---	---	---	2,316	891	292	150	57,499	2,219	1,310
08/13/00	---	---	---	---	2,526	728	201	106	48,620	4,976	0
08/14/00	---	---	---	---	2,544	769	195	96	27,102	2,575	200
08/15/00	---	---	---	---	1,518	590	221	87	37,030	2,595	450
08/16/00	---	---	---	---	1,436	459	146	97	22,570	2,106	260
08/17/00	---	---	---	---	1,284	497	230	70	32,244	2,833	260
Total:	0	0	0	0	35,782	19,166	3,456	1,785	587,778	87,384	28,868
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	2,556	1,369	247	128	41,984	6,242	2,062

* See sampling comments <http://www.fpc.org/2000Daily/smpcomments.htm>

These data are preliminary and have been derived from various sources. For verification and/or origin of these data, contact the operators of the Fish Passage Data System at (503) 230-4099.

Two-Week Summary of Passage Indices

COMBINED COHO

	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/04/00	---	---	---	---	0	40	27	0	0	0	25
08/05/00	---	---	---	---	24	60	30	0	0	0	0
08/06/00	---	---	---	---	12	10	22	0	50	52	0
08/07/00	---	---	---	---	18	30	25	0	0	22	0
08/08/00	---	---	---	---	6	4	21	0	30	17	0
08/09/00	---	---	---	---	6	8	22	0	0	0	0
08/10/00	---	---	---	---	0	27	27	0	50	0	0
08/11/00	---	---	---	---	30	18	42	0	0	0	0
08/12/00	---	---	---	---	12	33	17	0	0	0	0
08/13/00	---	---	---	---	24	14	15	0	222	0	0
08/14/00	---	---	---	---	12	18	10	0	0	0	0
08/15/00	---	---	---	---	12	4	17	0	30	0	0
08/16/00	---	---	---	---	8	10	16	0	0	0	0
08/17/00	---	---	---	---	12	10	11	0	34	0	0
Total:	0	0	0	0	176	286	302	0	416	91	25
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	13	20	22	0	30	7	2

COMBINED STEELHEAD

	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/04/00	---	---	---	---	354	41	133	0	0	0	0
08/05/00	---	---	---	---	156	75	83	0	0	0	0
08/06/00	---	---	---	---	204	15	34	0	0	0	0
08/07/00	---	---	---	---	294	40	34	0	0	0	0
08/08/00	---	---	---	---	252	12	26	0	30	0	0
08/09/00	---	---	---	---	156	12	14	0	0	0	0
08/10/00	---	---	---	---	222	27	22	0	0	0	0
08/11/00	---	---	---	---	150	30	43	0	0	0	0
08/12/00	---	---	---	---	144	22	30	2	0	0	0
08/13/00	---	---	---	---	96	20	60	1	0	0	0
08/14/00	---	---	---	---	84	10	29	0	0	0	0
08/15/00	---	---	---	---	102	4	20	0	30	0	0
08/16/00	---	---	---	---	48	4	27	1	35	16	0
08/17/00	---	---	---	---	36	4	13	0	0	0	0
Total:	0	0	0	0	2,298	316	568	4	95	16	0
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	164	23	41	0	7	1	0

Smolt indices, clipped & unclipped or combined, are presented in the following order: yearling chinook (chinook 1's), subyearling chinook (chinook 0's), steelhead, coho, and sockeye. Two classes of fish counts are shown in these tables: collection counts, which account for sample rates but are not adjusted for flow; and passage indices, which are collection counts divided by the proportion of water passing through the sampled powerhouse. Passage indices are not population estimates, but are used to adjust collection counts for daily fluctuations in the site's or project's operations. The classes of counts presented in the report are defined below for each site. Most samples occur over a 24-hr period that spans two calendar days. In this report, the date shown corresponds with the sample end date.

Two-Week Summary of Passage Indices

COMBINED SOCKEYE

	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/04/00	---	---	---	---	0	4	0	4	1,100	1,041	0
08/05/00	---	---	---	---	0	5	0	3	300	103	30
08/06/00	---	---	---	---	0	0	0	4	400	0	0
08/07/00	---	---	---	---	0	0	0	7	500	22	0
08/08/00	---	---	---	---	0	4	1	0	720	29	0
08/09/00	---	---	---	---	6	0	0	1	693	157	0
08/10/00	---	---	---	---	6	3	0	2	550	100	0
08/11/00	---	---	---	---	18	12	0	0	249	17	0
08/12/00	---	---	---	---	0	9	2	9	216	18	0
08/13/00	---	---	---	---	6	6	0	7	665	53	0
08/14/00	---	---	---	---	12	6	0	7	463	0	0
08/15/00	---	---	---	---	18	6	0	7	361	29	0
08/16/00	---	---	---	---	0	8	0	3	245	0	0
08/17/00	---	---	---	---	0	8	1	3	378	11	0
Total:	0	0	0	0	66	71	4	57	6,840	1,580	30
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	5	5	0	4	489	113	2

Definitions for Smolt Index Counts

WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts

IMN (Collection) = Imnaha River Trap : Collection Counts

GRN (Collection) = Grande Ronde River Trap : Collection Counts

LEW (Collection) = Snake River Trap at Lewiston : Collection Counts

LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

LEW and WTB data collected for the FPC by Idaho Dept. of Fish and Game.

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.

RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.

LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.

LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.

IMN data collected for the FPC by the Nez Perce Tribe.

Cumulative Adult Passage at Mainstem Dams Through 08/17

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2000		1999		10-Yr Avg.		2000		1999		10-Yr Avg.		2000		1999		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	178,302	21,259	38,669	8,691	62,347	2,737	30,598	13,386	26,169	4,022	20,522	2,637	14,261	2,395	7,357	1,167	6,829	753
TDA	102,953	14,796	17,563	6,180	36,497	1,828	25,024	10,409	21,730	3,207	16,441	1,905	7,449	1,742	3,739	1,094	2,895	430
JDA	86,502	12,133	15,409	5,089	29,402	1,505	23,069	8,146	22,210	2,504	15,458	1,691	3,220	1,224	2,191	236	1,486	215
MCN	64,947	10,998	9,260	3,972	28,536	1,577	20,776	7,098	19,275	2,343	16,138	1,747	2,108	657	1,316	151	1,133	181
IHR	38,776	9,389	5,351	2,657	15,091	720	4,241	3,182	3,900	1,311	4,465	461	59	9	28	1	35	3
LMN	35,520	10,336	3,924	2,726	14,041	753	4,678	3,288	3,372	1,344	4,195	468	25	25	13	5	15	2
LGS	34,330	10,152	3,445	2,690	**	**	4,160	3,776	3,273	1,583	**	**	0	0	0	0	**	**
LWG	33,822	10,318	3,296	2,507	12,180	669	3,933	3,736	3,260	1,584	4,222	494	0	0	0	0	0	0
PRD	20,098	1,085	4,139	761	9,052	194	22,406	2,503	20,896	517	14,069	596	330	55	386	13	178	23
RIS	14,400	1,429	3,309	915	6,567	218	17,643	10,598	16,879	1,276	11,084	833	0	0	0	0	0	0
RRH	5,336	392	1,389	233	1,501	54	11,881	3,414	8,988	607	4,609	341	0	0	0	0	0	0
WEL	2,143	457	141	199	752	53	5,937	3,018	6,069	382	2,817	283	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2000		1999		10-Yr Avg.		2000	1999	10-Yr Avg.	2000	1999	10-Yr Avg.	Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2000	1999	Avg.	2000	1999	Avg.	2000
BON	319	151	10	0	43	14	93,152	17,866	42,089	153,060	111,010	104,643	55,549
TDA		21	0	0	2	0	73,324	13,706	32,858	56,105	58,252	38,115	24,193
JDA	2	0	0	0	0	0	88,198	14,801	34,248	39,118	42,737	25,779	14,311
MCN	0	0	0	1	0	0	58,238	11,790	35,723	27,144	21,008	20,936	9,872
IHR	0	0	0	0	0		213	6	7	12,319	10,154	10,497	3,867
LMN	0	0	0	0	0	0	289	13	7	10,059	6,970	8,702	3,382
LGS	0	0	0	0	**	**	299	16	**	6,100	4,970	**	2,238
LWG	0	0	0	0	0	0	276	14	6	7,354	6,213	7,821	2,709
PRD	37	4	38	4	5	0	89,765	16,288	40,396	***	1,719	2,183	***
RIS	12	0	0	0	2	0	73,248	16,614	35,333	3,741	841	1,245	946
RRH	62	0	22	0	2	0	54,012	13,497	18,095	2290	461	757	307
WEL	0	0	0	0	0	0	59,667	11,807	16,854	1,301	378	635	202

Note: LGS, PRD are through 08/15; LMN, WEL are through 08/16; RRH, RIS are through 08/09.

Note: JDA is missing 08/16; LGR is missing 7/12 and 07/31. RIS and RRH are missing 07/16 to 07/18.

These numbers were collected from the COE's Running Sums text files.

Wild steelhead numbers are included in the total.

**Adult count records at Little Goose Dam have been maintained since 1991, visual counts were not conducted at Little Goose Dam between 1982 and 1990.

***PRD is not reporting Wild Steelhead numbers.

Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.

Historic counts 1997 to present were obtained from the Corps of Engineers.

Two Week Transportation Summary

08/04/00 TO 08/17/00

		Species					Grand Total
Site	Data	CH0	CH1	CO	SO	ST	
LGR	Sum Of NumberCollected	35,780	310	176	66	2,298	38,630
	Sum Of NumberBarged	0	0	0	0	0	0
	Sum Of NumberBypassed	0	0	0	0	0	0
	Sum Of NumberTrucked	37,580	380	164	68	2,394	40,586
	Sum Of TotalProjectMort	199	3	0	3	1	206
LGS	Sum Of NumberCollected	19,151	53	286	71	316	19,877
	Sum Of NumberBarged	0	0	0	0	0	0
	Sum Of NumberBypassed	0	0	0	0	0	0
	Sum Of NumberTrucked	20,558	44	295	67	336	21,300
	Sum Of TotalProjectMort	192	13	8	7	8	228
LMN	Sum Of NumberCollected	3,456	44	302	4	568	4,374
	Sum Of NumberBarged	0	0	0	0	0	0
	Sum Of NumberBypassed	0	0	171	0	559	730
	Sum Of NumberTrucked	3,578	45	142	3	2	3,770
	Sum Of TotalProjectMort	50	0	12	0	7	69
MCN	Sum Of NumberCollected	552,215	30	390	6,571	90	559,296
	Sum Of NumberBarged	143,849	0	27	2,147	0	146,023
	Sum Of NumberBypassed	36,568	0	30	357	29	36,984
	Sum Of NumberTrucked	363,558	16	192	3,835	54	367,655
	Sum Of TotalProjectMort	8,240	14	141	232	7	8,634
Total Sum Of NumberCollected		610,602	437	1,154	6,712	3,272	622,177
Total Sum Of NumberBarged		143,849	0	27	2,147	0	146,023
Total Sum Of NumberBypassed		36,568	0	201	357	588	37,714
Total Sum Of NumberTrucked		425,274	485	793	3,973	2,786	433,311
Total Sum Of TotalProjectMort		8,681	30	161	242	23	9,137

YTD Transportation Summary

TO: 08/17/00

		Species					Grand Total
Site	Data	CH0	CH1	CO	SO	ST	
LGR	Sum Of NumberCollected	604,700	2,449,853	121,915	6,027	5,038,352	8,220,847
	Sum Of NumberBarged	533,095	2,324,209	121,045	5,697	4,795,307	7,779,353
	Sum Of NumberBypassed	46	115,444	400	16	226,270	342,176
	Sum Of NumberTrucked	67,646	6,886	411	283	16,514	91,740
	Sum Of TotalProjectMort	2,635	3,303	47	31	725	6,741
LGS	Sum Of NumberCollected	312,757	1,357,121	41,502	3,472	1,054,992	2,769,844
	Sum Of NumberBarged	282,653	1,348,003	40,149	3,284	1,045,239	2,719,328
	Sum Of NumberBypassed	0	0	0	0	0	0
	Sum Of NumberTrucked	50,807	4,454	1,312	160	8,703	65,436
	Sum Of TotalProjectMort	2,170	5,305	90	42	1,440	9,047
LMN	Sum Of NumberCollected	176,840	608,532	19,020	4,262	765,762	1,574,416
	Sum Of NumberBarged	146,077	556,132	18,198	4,239	761,544	1,486,190
	Sum Of NumberBypassed	19,839	24,873	171	0	1,716	46,599
	Sum Of NumberTrucked	9,776	25,974	623	19	1,767	38,159
	Sum Of TotalProjectMort	923	1,564	29	3	736	3,255
MCN	Sum Of NumberCollected	9,017,205	1,164,638	168,961	92,891	365,747	10,809,442
	Sum Of NumberBarged	7,902,533	25,995	26,993	28,657	10,650	7,994,828
	Sum Of NumberBypassed	696,232	1,137,415	140,966	59,679	354,530	2,388,822
	Sum Of NumberTrucked	363,558	16	192	3,835	54	367,655
	Sum Of TotalProjectMort	54,883	1,211	809	720	513	58,136
Total Sum Of NumberCollected		10,111,502	5,580,144	351,398	106,652	7,224,853	23,374,549
Total Sum Of NumberBarged		8,864,358	4,254,339	206,385	41,877	6,612,740	19,979,699
Total Sum Of NumberBypassed		716,117	1,277,732	141,537	59,695	582,516	2,777,597
Total Sum Of NumberTrucked		491,787	37,330	2,538	4,297	27,038	562,990
Total Sum Of TotalProjectMort		60,611	11,383	975	796	3,414	77,179

